***COMPLETE IN NOTEBOOK! SHOW ALL WORK IN NOTEBOOK!***

CW64/HW64: Special Right Δ 30°-60°-90°

**Geometry**

Due: Wed, Mar. 1st

Type I

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| 1. The side lengths of a triangle are given. Determine whether it is a 45°-45°-90° triangle, a 30°-60°-90° triangle, or neither.   a. 5, 10,  b. 6, 6, |

Type II Directions: Find the value of each variable. Write your answers in simplest radical form.

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| 1. Use the figure at the right to complete the table below. | | ⁰  ⁰ | |

Type III

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| 1. A 24 foot long bleacher stand has a base angle 30°. How high above the ground is the last row of seating? | 1. Find the area of the figure. Round decimal answers to the nearest tenth. |
| 1. Find the area of the figure. Round decimal answers to the nearest tenth. | 16, Find the area of the figure. Round decimal answers to the nearest tenth. |
| 1. The side length of an equilateral triangle is 5 centimeters. Find the length of an altitude of the triangle. Draw a figure. | 1. The perimeter of an equilateral triangle is 36 inches. Find the area of the equilateral. Round to the nearest tenth. Draw a figure. |
| 1. Each figure below is a 30°-60°-90° triangle. Find the value of x. Round to the nearest tenth. | 1. The perimeter of an equilateral triangle is 45 meters. Find the length of an altitude. Round to the nearest tenth. |